

# Amol Mane

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## Objective:

Aspiring Software Developer skilled in C, C++, and Java with strong foundations in OS internals, data structures, and full-stack development. Seeking opportunities to apply my technical expertise in building scalable and efficient software solutions.

## Education:

**Dr. Babasaheb Ambedkar Technological University, Lonere**

**Nov 2022 – July 2026**

BTech Information Technology

CGPA: 7.29/10

## Professional Summary

- Proficient in C, C++, and Java with hands-on experience in Linux System Programming, OS internals, kernel-level concepts, and performance tuning.
- Skilled in backend development using Java, RESTful APIs, database integration, and cross-platform programming.
- Designed and implemented 7+ industry-oriented projects including full-stack applications, cryptography systems, reusable libraries, and secure file transfer modules.
- Strong in algorithms, data structures, encryption, system-level security, and both console & GUI (Swing/AWT) application development.
- Familiar with Agile, Waterfall, and Incremental SDLC, active GitHub contributor with well-documented repositories and strong problem-solving skills.
- Experienced in shell scripting with the ability to quickly learn, adapt, and mentor peers.

## Technical Skills:

**Programming Languages:** C, C++, Java

**Web Technologies:** HTML/HTML5, CSS2/CSS3

**Tools:** GIT, GitHub, VS Code, Visual Studio

**Database:** SQL (Oracle), MySQL, MongoDB (NoSQL)

**Operating System:** Windows NT, Linux Distributions

**Methodologies:** Agile, Incremental, Waterfall

**Other:** Shell Scripting, Apache Tomcat, Unit Testing

## Projects:

### 1. Virtual File System (VFS) | C Programming, OS Internals

- Simulated Linux-like file system operations with a custom shell.
- Implemented system calls (open, read, write, lseek, delete).
- Gained hands-on understanding of inodes, file tables, and OS design.

### 2. Generalized Data Structures Library | C++

- Developed a reusable library of linear & non-linear data structures.
- Implemented stacks, queues, linked lists, BST, searching & sorting.
- Designed using templates for data type independence.

### **3. Chat-Bird Messenger with Log Facility | Java, Socket Programming, Swing, AWT**

- Implemented a peer-to-peer chat system with real-time messaging.
- Maintained chat logs with timestamps for future reference.
- Applied TCP/IP socket programming concepts.

### **4. File Packer Unpacker | Java**

- Built a file archiving utility with integrated encryption/decryption.
- Implemented metadata preservation during packing/unpacking.
- Designed GUI using Swing for user-friendly interaction.

### **5. Customized Database Management System | Java, Serialization**

- Implemented a Database Management System without using actual DBMS.
- Implemented Java's Collections Framework.
- Persist data between program runs using Serialization and Deserialization.

**Other:** Solved 100+ coding problems across CodeChef, GFG, LeetCode.

Typing speed : 60+ WPM.

The above-mentioned information is authentic to the best of my knowledge.

Amol Ramesh Mane